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(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH [DE/DE]**; Stein-damm 94, 20099 Hamburg (DE).

(71) Applicant (for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM,

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(72) Inventors; and

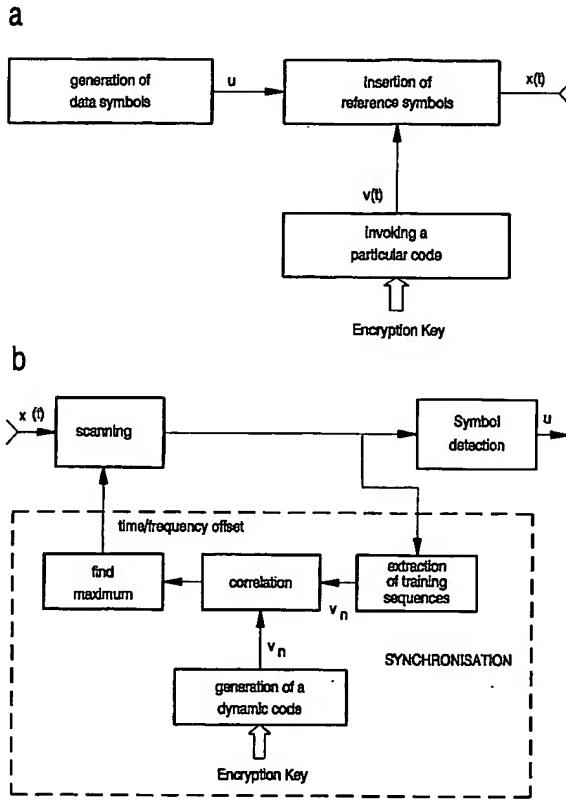
(75) Inventors/Applicants (for US only): **DALMASES, Francesc [ES/DE]**; c/o Philips Intellectual Property & Standards GmbH, Weissbausstr. 2, 52066 Aachen (DE). **KAHLERT, Joachim [DE/DE]**; c/o Philips Intellectual Property & Standards GmbH, Weissbausstr. 2, 52066 Aachen (DE).

(74) Agent: **MEYER, Michael**; Philips Intellectual Property & Standards GmbH, Weissbausstr. 2, 52066 Aachen (DE).

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(54) Title: ENCRYPTION METHOD AND DECODING METHOD FOR A DIGITAL TRANSMISSION SYSTEM



(57) **Abstract:** An encryption method and decoding method for a digital transmission system, in which the digital data stream comprises an alternating sequence of training sequences and data symbols, and the training sequences are dynamically coded. At the receiving end, a decoding code (V_n) is generated by a code generator as a function of an encryption key (200). This decoding code is sent to a correlator, where it is mixed with the encryption code V_n extracted from the digital data stream. The correlator generates a correcting variable to compensate the offset in respect of time or frequency between the sender and receiver. Encryption is achieved through the alteration of the code used during the transmission.



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